

CCTGACCGGCCGGCGGGCGCCCGGGCCGGTCTCGCCCCTCTACCGAGCGCCTCGCCGCC
 CCCTCCCCGGCCCGCGTCCCTCCCCCGTCTCTCTCCCCGCCCCGCCGCCCGCCTCTC
 GGGGGGAGGGGCGTGGGGGCAGGGAGCCGATTTGCATGCGGCCGCCGCCGCCGCCGCG
 CCTGAGCCGGAGCCCGCCGCCGCCGGAGCCCGCGCCCGCGCCCGCGCCCGGCCCGCG
 CGGCCCCATGCCTCTGGCGCGGCCCTCGGGGGGGCGAAGGTGAAGATCGGCTCCTAG
 GATGAGTGAAGGGGCGGCCGGTGCCTCGCCACCTGGTGCCGCTTCGGCAGCCGCCGC
 CTCAGCCGAGGAGGGCACCGCGGCGGCTGCGGCGGCGGCGGCGGCGGGCGGGGGCC
 CGGACGGCGGCGGAGAAGGGGGCGGCCGAACCCCCCGGAGTTACGCTGTAGCGACT
 GCATCGTGTGGAACCGGCAGCAGACGTGGTTGTGCGTGGTGCCTCTGTTTCATCGGCTT
 CATCGGCCTGGGGCTCAGCCTCATGCTGCTTAAATGGATCGTGGTAGGCTCCGTCAAG
 GAGTACGTGCCACGGACCTGGTGGACTCCAAGGGAATGGGCCAGGACCCCTTCTTCC
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 ACGTCCCCCGCCACCCCTCTGCCGGCGGCGCCGCTTCTTCCAGGACGCCTAACCGBA
 TTAGCACCCGCTTGACCACCATCACACGGGCACCCACCCGCTTCCCTGGGCACCGGGT
 TCCCATCCGGGCTAGCCCGCGCTCTACCACAGCACGGAACACTGCTGCCCTCCGACG
 GTCCTGTCCACCACGGCCCCCTTTCTTCAGTAGCAGCACGCCCGGCTCCCGACCCCGAT
 GCCAGGAGCCCCCAGTACGCAGGCGATGCCTTCTGGCCCACTGCGGCGTATGCTACC
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 GCACCAGCCCCAAATTTCACTACAACATACTCCACTGAACGATCTGAGCACTTCAA
 ACCCTGTGAGACAAGGACCTGGCGTATTGTCTCAATGATGGTGAATGCTTTGTGATT
 GAGACCCTGACAGGATCCCATAAGCACTGTCGGTGCAAGGAAGGCTACCAAGGAGTC
 CGTTGTGATCAATTTCTGCCGAAAACAGACTCCATCTTATCGGATCCAACAGACCACTT
 GGGGATTGAATTCATGGAGAGTGAAGACGTTTATCAAAGGCAGGTGCTGTCAATTTCA
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 CAAGAAACAAGCTAAACAAATTCAGGAGCACCTGAAAGAGTCAAGAATGGGAAGAA
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 AGTCAAGTTTTTTCAGCTCCCCAGTCGTTCCCAGAAGTCACTTCTCCTGACCGAGGAAG
 CCAGCCTATCAAGCACCACAGCCAGGACAAAGGAGTGGGATGTTGCATAGGAATAC
 TTTCAGAAGGGCACCACCCTCACCCGAAGTCGACTGGGTGGTATTGTAGGACCAGCA
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 TAGAGGTCAGGAAGACTATATCCCACCTGCCTATACAGCTGTGGTGTGTTGAAAGACC
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 ATGCAACTGCCTTCAAGAGAGACAAACCCCTATTTTAATAGCTTGGATCAAAGGACC
 TGGTGGGTATTATTTATCCCCAAGGGCCAATTCTGTGCCCATCATCCCGTCGATGGGTCTA
 GAAGAAACCTGCATGCAAATGCCAGGGATTCTGACGTCAAAGCATTAAATGGTGCA
 AAACTCCTACTCCGCTGACATTGTCAACGCGAGTATGCCAGTCAGTGATTGTCTTCTA
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 AGTGCGAGCGAAAACACAGCCTTTCTCCCCCTGAGTCCCACGGCCAAATCAGAACGAG
 AGGCACAATTTGTCTTAAGAAATGAAATACAAAGAGACTCTGTGCTAACCAAGTGACT
 GGAAATGTAGGAATCTGTGCATTATATGCTTTGCTAAACAGGAAGGAGAGGAAATTA
 AATACAAATTATTTATATGCATTAATTTAAGAGCATCTACTTAGAAGCC

Figure 1

TCACCGACCTAGTGGACTCCACTAGGTCTGGTGGGACGCTACTCCTTGACGGAGGCCAC
CACGATCCATTTGAGAAAGCATGAGGGCGGGCCCCATGCCTCTGCCGCGGCCCTCGGGG
GGGCGAAGGTGAANACCGGCTCCTAGGATGAGTGAAGGGGCGGCCGCTGCCTCGCCA
CCTGGTGCCGCTTCGGCAGCCGCCGCTCGGCCGAGGAGGGACCGCGGGCGGCTGCG
GCGGCGGCAGCGGCGGGCGGGGGCCCCGACGGCGGGCGGGCAAGGGGCGGCCGAGCC
CCCCCGGGAGTTACGCTGTAGCGACTGCATCGTGTGGAACCGGCAGCAGACGTGGCT
GTGCGTGGTACCTCTGTTTCATCGGCTTCATCGGCCTGGGGCTCAGCCTCATGCTTCTCA
AATGGATCGTGGTGGGCTCCGTCAAGGAGTACGTGCCACCGACCTAGTGGACTCCAA
GGGGATGGGCCAGGACCCCTTCTTCTCTCCAAGCCAGCTCTTTCCCCAAGGCCATG
GAGACCACCACCACTACCACTTCCACCACGTCCCCCGCCACCCCTCCGCCGGGGGTG
CCGCTCTCTCAGGACGCCCCAACCGGATTAGCACTCGCCTGACCACCATCACGCGGGC
GCCACTCGCTTCCCCGGGCACCGGGTGCCCATCCGGGGCAGCCCGCGCTCCACCACA
GCACGGAACACTGCGGCCCTGCGACGGTCCCGTCCACCACGGCCCCGTCTTTCAGTA
GCAGCACGCTGGGCTCCCGACCCCGGTGCCAGGAACCTCAAGTACCCAGGCAATGCC
CTCCTGGCCTACTGCGGCATACGCTACCTCCTCCTACCTTCACGATTCTACTCCCTCCT
GGACCCTGTCTCCCTTTCAGGATGCTGCCTCCTCTTCTTCTTCTTCTTCTCCTCCTCCGCTA
CCACCACCACACCAGAACTAGCACCAAGCCCCAAATTCATACGACGACATATTCCAC
AGAGCGATCCGAGCACTTCAAACCCCTGCCGAGACAAGGACCTTGCACTACTGTCTCAAT
GATGGCGAGTGCTTTGTGATCGAAACCCCTGACCGGATCCCATAAACACTGTGCGTGCA
AAGAAGGCTACCAAGGAGTCCGTTGTGATCAATTTCTGCCGAAAACTGATTCCATCTT
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AGGCAGGTGCTGTCAATTTATGTATCATCTTTGGAATTGTATCGTGGGCATGTTCTG
TGCAGCATTCTACTTCAAAGCAAGAAACAAGCTAAACAAATCCAAGAGCAGCTGAA
AGTGCCACAAAATGGTAAAAGCTACAGTCTCAAAGCATCCAGCACAAATGGCAAAGTC
AGAGAACTTGGTGAAGAGCCATGTCCAGCTGCAAAATTATTCAAAGGTGGAAAGGCA
TCCTGTGACTGCATTGGAGAAAAATGATGGAGTCAAGTTTTGTGCGCCCCCAGTCATT
CCTGAGGTCCCTTCTCCTGACAGAGGAAGCCAGTCTGTCAAACACCACAGGAGTCTAT
CCTCTTGCTGCAGCCCAGGGCAAAGAAGTGGCATGCTCCATAGGAATGCCTTCAGAAG
GACACCCCGCTACCCCGAAGTAGGCTAGGTGGAATTGTGGGACCAGCATATCAGCA
ACTCGAAGAATCAAGGATCCCAGACCAGGATACGATACCTTGCCAAGGGATAGAGGT
CAGGAAGACTATATCCCACCTGCCTATACAGCTGTGGTGTGTTGAAAGACCCCTGGAC
TTAAAGTATTTCATCCAGTGGTTTAAAAACCCAACGAAATACATCAATAAATATGCAAC
TGCCTTCAAGAGAGACAAACCCCTATTTTAATAGCTTGGAGCAAAAGGACCTGGTGGG
CTATTCATCCACAAGGGCCAGTTCTGTGCCCATCATCCCTTCAGTGGGTTTAGAGGAA
ACCTGCCTGCAAAATGCCAGGGATTTCTGAAGTCAAAGCATCAAATGGTGCAAAAAC
CCTATTCAGCTGACGTTGTCAATGTGAGTATTCCAGTCAGCGATTGTCTTATAGCAGA
ACAACAAGAAGTGAAAATATTGCTAGAACTGTCCAGGAGCAGATCCGAATTCTGACT
GATGCCAGACGGTCAGAAAGACTACGAACTGGCCAGCGTAGAAACCGAGGACAGTGCA
AGCGAAAACACAGCCTTTCTCCCCCTGAGTCCCACAGCCAAATCAGAACGAGAGGGCGC
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GTAGGAATCTGTGATTCTATGCTTTGCTCAACAGGAAAGAGAGGAAATCAAATACAA
ATTATTTATATGCATTAATTTAAGAGCATCTACTTAGAAGAAACCAAATAGTCTATCGC
CTCATATCATAGTGTTTTTTTAAACAAAATATTTTTTTAAGGGAAAGAAATGTTTCAGGA
GGGATAAAGCTT

Figure 2

ATGAGTGAAGGGGCGGCCGCTGCCTCGCCACCTGGTGCCGCTTCGGCAGCCGCCGCTCGGCCGAGG
AGGGCACCGCGCGGCTGCGGCGGCGGCAGCGGCGGGGGGGCGGACGGCGGCGGCGAAGGGG
CGGCCGAGCCCCCGGAGTTACGCTGTAGCGACTGCATCGTGTGGAACCGGCAGCAGACGTGGCT
GTGCGTGGTACCTCTGTTTCATCGGCTTCATCGGCCTGGGGCTCAGCCTCATGCTTCTCAAATGGATCGT
GGTGGGCTCCGTCAAGGAGTACGTGCCCACCGACCTAGTGGACTCCAAGGGGATGGGCCAGGACCCC
TTCTTCCTCTCCAAGCCAGCTCTTTCCCAAGGCCATGGAGACCACCACCACTACCACTTCCACCACG
TCCCCCGCCACCCCCTCCGCCGGGGGTGCCGCTCCTCCAGGACGCCCAACCGGATTAGCACTCGCCT
GACCACCATCACGCGGGCGCCCACTCGCTTCCCCGGGCACCGGGTGCCCATCCGGGCCAGCCCGCGCT
CCACCACAGCACGGAACACTGCGGCCCTGCGACGGTCCCGTCCACCACGGCCCCGTTCTTCAGTAGC
AGCACGCTGGGCTCCCGACCCCCGGTGCCAGGAACTCCAAGTACCCAGGCAATGCCCTCCTGGCCTAC
TGCGGCATACGCTACCTCCTCTACCTTCACGATTCTACTCCCTCCTGGACCCTGTCTCCCTTTCAGGA
TGCTGCCTCCTCTTCTCCTCTTCTCCTCCTCCGCTACCACCACCACACCAGAACTAGCACCAGCCC
CAAATTTTCATACGACGACATATTCCACAGAGCGATCCGAGCACTTCAAACCCTGCCGAGACAAGGAC
CTTGCTACTGTCTCAATGATGGCGAGTGCTTTGTGATCGAAACCCTGACCGGATCCCATAAACACTG
TCGGTGCAAAGAAGGCTACCAAGGAGTCCGTTGTGATCAATTTCTGCCGAAAACCTGATTCCATCTTAT
CGGATCCAACAGACCACTTGGGGATTGAATTCATGGAGAGTGAAGAAGTTTATCAAAGGCAGGTGCT
GTCAATTTTCATGTATCATCTTTGGAATTGTCATCGTGGGCATGTTCTGTGCAGCATTCTACTTCAAAG
CAAGAAACAAGCTAAACAAATCCAAGAGCAGCTGAAAGTGCCACAAAATGGTAAAAGCTACAGTCTC
AAAGCATCCAGCACAAATGGCAAAGTCAGAGAACTTGGTGAAGAGCCATGTCCAGCTGCAAAATTATT
CAAAGGTGGAAAGGCATCCTGTGACTGCATTGGAGAAAATGATGGAGTCAAGTTTTGTCGGCCCCCA
GTCATTCCCTGAGGTCCCTTCTCCTGACAGAGGAAGCCAGTCTGTCAAACACCACAGGAGTCTATCCT
CTTGCTGCAGCCCAGGGCAAAGAAGTGGCATGCTCCATAGGAATGCCTTCAGAAGGACACCCCCGTC
ACCCCGAAGTAGGCTAGGTGGAATTGTGGGACCAGCATATCAGCAACTCGAAGAATCAAGGATCCCA
GACCAGGATACGATACCTTGCCAAGGGTATTCATCCAGTGTTTTAAAAACCCAACGAAATACATCAAT
AAATATGCAACTGCCTTCAAGAGAGACAAACCCCTATTTTAATAGCTTGGAGCAAAAGGACCTGGTG
GGCTATTCATCCACAAGGGCCAGTTCTGTGCCCATCATCCCTTCAGTGGGTTTAGAGGAAACCTGCCT
GCAAATGCCAGGGATTTCTGAAGTCAAAGCATCAAATGGTGCAAAAACCTCTATTTCAGCTGACGTTG
TCAATGTGAGTATTCCAGTCAGCGATTGTCTTATAGCAGAACAACAAGAAGTGAAAATATTGCTAGAA
ACTGTCCAGGAGCAGATCCGAATTCTGACTGATGCCAGACGGTCAGAAGACTACGAAGTGGCCAGCG
TAGAAACCGAGGACAGTGCAAGCGAAAACACAGCCTTTCTCCCCCTGAGTCCCACAGCCAAATCAGA
ACGAGAGGCGCAATTTGTCTTAAGAAATGAAATACAAAGAGACTCTGCATTGACCAAGTGA

Figure 3

hNRG3B1 1 MSEGAAASPPGAASAAAAAEEGTAAAAAAGGGPDGGGEGAAEPPR
mNRG3 1 MSEGAAASPPGAASAAAAAEEGTAAAAAAGGGPDGGGEGAAEPPR

hNRG3B1 51 ELRCSDCIVWNRQQTWLCVVPLFIGFIGLGLSLMLLKWIVVGSVKEYVPT
mNRG3 51 ELRCSDCIVWNRQQTWLCVVPLFIGFIGLGLSLMLLKWIVVGSVKEYVPT

hNRG3B1 101 DLVDSKGMGQDPFFLSKPSSFPKAMETTTTTTTSTTSPATPSAGGAASSRT
mNRG3 101 DLVDSKGMGQDPFFLSKPSSFPKAMETTTTTTTSTTSPATPSAGGAASSRT

hNRG3B1 151 PNRISTRLTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVPSTTAPF
mNRG3 151 PNRISTRLTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVLSSTAPF

hNRG3B1 201 FSSSTLGSRPPVPGTPTSTQAMPSPWPTAAYATSSYLHDSTPSWTLSPFQD-
mNRG3 201 FSSSTPGSRPPMPGAPSTQAMPSPWPTAAYATSSYLHDSTPSWTLSPFQDA

hNRG3B1 250 -AASSSSSSSSSATTTTTPETSTSPKFHTTYSSTERSEHFKEPDRDKLAYC
mNRG3 251 AAASSSSPSSSTSTTTTTPETSTSPKFHTTYSSTERSEHFKEPDRDKLAYC

hNRG3B1 299 LNDGEQFVIETLTGSHKHQRCKEGYQGVREDDQFLPKTDSILSDPTDHLGI
mNRG3 301 LNDGEQFVIETLTGSHKHQRCKEGYQGVREDDQFLPKTDSILSDPTDHLGI

hNRG3B1 349 EFMESEEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKOAKOIQEQLKV
mNRG3 351 EFMESEEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKOAKOIQEHLKE

hNRG3B1 399 PQNGKSYSLKASSTMAKSENLVKSHVQLQNYSKVERHPVTALEKMMESSF
mNRG3 401 SQNGKNYSLKASST--KSESLMKSHVHLQNYSKADRHHPVTALEKIMESSF

hNRG3B1 449 VGQSFPEVPSPDRGSQSVKHHRSLSSCCSPGQSGMLHRNAFRRTPPSP
mNRG3 449 SAQSFPEVTSPDRGSOPIKHH-----SPGQSGMLHRNTERRAPPSP

hNRG3B1 499 RSRLGGIVGPAYQOLEESRIPDQDITPCQGIEVRKTISHLPQWLWVERP
mNRG3 492 RSRLGGIVGPAYQOLEESRIPDQDITPCQGIEVRKTISHLPQWLWVERP

hNRG3B1 549 LDKYSISGLKTRNTSINMQLPSRETNPFNSLEQKDLVGYSSTRASSV
mNRG3 542 LDKYVSNGLRTOQNASINMQLPSRETNPFNSLDQKDLVGYSSTRANSV

hNRG3B1 599 PIIPSVGLEETCLQMPGISLVKSIKWCKNSYSADVNVVSIIPVSDCLIAEQ
mNRG3 592 PIIPSMGLEETCMQMPGISLVKSIKWCKNSYSADIVNAMPVSDCVIEEQ

hNRG3B1 649 QEVKILLETVQEQIRILTDARRSEDYELASVETEDSASENTAFLPLSPTA
mNRG3 642 QEVKILLETVQEQIRILTDARRSEDFELASMETEDSASENTAFLPLSPTA

hNRG3B1 699 KSEREAQFVLRNEIQRDSALTK
mNRG3 692 KSEREAQFVLRNEIQRDSVLTk

Figure 4A

hNRG3B1 1 MSEGAAAAASPPGAASAAAAAEEGTAAAAAAGGGPDGGGEGAAEPPR
hNRG3B2 1 MSEGAAAAASPPGAASAAAAAEEGTAAAAAAGGGPDGGGEGAAEPPR

hNRG3B1 51 ELRCSDCIVWNRQQTWLCVVPLFIGFIGLGLSLMLLKWIVVGSVKEYVPT
hNRG3B2 51 ELRCSDCIVWNRQQTWLCVVPLFIGFIGLGLSLMLLKWIVVGSVKEYVPT

hNRG3B1 101 DLVDSKGMGQDPFFLSKPSSFFPKAMETTTTTTTSTTSPATPSAGGAASSRT
hNRG3B2 101 DLVDSKGMGQDPFFLSKPSSFFPKAMETTTTTTTSTTSPATPSAGGAASSRT

hNRG3B1 151 PNRISTRLTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVPSTTAPF
hNRG3B2 151 PNRISTRLTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVPSTTAPF

hNRG3B1 201 FSSSTLGSRPPVPGTPSTQAMPSPWPTAAYATSSYLHDSTPSWTLSPFQDA
hNRG3B2 201 FSSSTLGSRPPVPGTPSTQAMPSPWPTAAYATSSYLHDSTPSWTLSPFQDA

hNRG3B1 251 ASSSSSSSSSATTTTTPETSTSPKFHTTTTYSTERSEHFKPCROKDLAYCLN
hNRG3B2 251 ASSSSSSSSSATTTTTPETSTSPKFHTTTTYSTERSEHFKPCROKDLAYCLN

hNRG3B1 301 DGEFCFVIETLTGSHKHCRCKEGYQGVRCDOFLPKTDSILSDPTDHLGIEF
hNRG3B2 301 DGEFCFVIETLTGSHKHCRCKEGYQGVRCDOFLPKTDSILSDPTDHLGIEF

hNRG3B1 351 MESEEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKQAKOIQEQLKVPO
hNRG3B2 351 MESEEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKQAKOIQEQLKVPO

hNRG3B1 401 NGKSYSLKASSTMAKSENLVKSHVOLQNYSKVERHPVTALEKMMESSFVG
hNRG3B2 401 NGKSYSLKASSTMAKSENLVKSHVOLQNYSKVERHPVTALEKMMESSFVG

hNRG3B1 451 PQSFPEVPSPDGRGSQSVKHHRSLSGCCSPGORSGLH'RNAFRRTPPSPRS
hNRG3B2 451 PQSFPEVPSPDGRGSQSVKHHRSLSGCCSPGORSGLH'RNAFRRTPPSPRS

hNRG3B1 501 RLGGIVGPAYQOLEESRIPDQDTIPCQGLEVRKTI SHLP IQLWCVERPLD
hNRG3B2 501 RLGGIVGPAYQOLEESRIPDQDTIPCQGLEVRKTI SHLP IQLWCVERPLD

hNRG3B1 551 LK YSSSGLKTQRNTSINMQLPSRETNPFYNSLEOKDLVGYSSSTRASSVP
hNRG3B2 529 - - YSSSGLKTQRNTSINMQLPSRETNPFYNSLEOKDLVGYSSSTRASSVP

hNRG3B1 601 IPSVGLEETCLOMPGISEVKS IKWCKNSYSADVNVSI PVSDCLIAEQOE
hNRG3B2 577 IPSVGLEETCLOMPGISEVKS IKWCKNSYSADVNVSI PVSDCLIAEQOE

hNRG3B1 651 VKILLETVQEQIRILTDARRSEDYELASVETEDSASENTAFLPLSPTAKS
hNRG3B2 627 VKILLETVQEQIRILTDARRSEDYELASVETEDSASENTAFLPLSPTAKS

hNRG3B1 701 EREAQFVLRNEIORDSALT K
hNRG3B2 677 EREAQFVLRNEIORDSALT K

hNRG3.egf	288	HFKP	CRDK	DLAY	CLND	GECF	V IET	LTGS	HKH	-CR	CKE	GYQ	GVRC	-DOF	L
cARIA.egf	137	HLTK	CDIK	QKAF	CVNG	GECY	MVKD	LPN	PPRY	L	CRCP	NEFT	GDRC	-QNY	V
hAR.egf	142	KKNP	CNAE	QNEC	IF	GECK	YIEH	LEAV	T--	-CK	QOEY	FGER	CGEK	SM	
hBTC.egf	65	HFSR	CPKQ	YKHY	CIK	GRCR	FVVA	EQT	PS--	-CV	CDEG	YIGAR	CERV	DL	
hEGF.egf	972	SDSE	CPLS	HDGY	CLHD	GVCM	YIEA	LQYA	--	-CN	CVVG	YIGER	COYR	DL	
hHB-EGF.egf	104	KRDP	CLRK	YKDF	CIH	GECK	YVKE	LRA	PS--	-CI	CHPG	YHGER	CHGL	SL	
hHRGα.egf	178	HLVK	CAEKE	KTF	CVNG	GECF	MVKD	LSNP	SRYL	CKCQ	PGFT	GARC	TENY	P	
hHRGβ.egf	178	HLVK	CAEKE	KTF	CVNG	GECF	MVKD	LSNP	SRYL	CKCP	NEFT	GDRC	-QNY	V	
hTGFα.egf	43	HFND	CPDS	HTQEC	FH	GT	CRFL	VQED	KPA--	-CV	CHSG	YVGAR	CEHA	DL	
mEPR.egf	57	QITK	CSSD	MDGY	CLH	GQC	IYLV	DMRE	KF--	-CR	CEVG	YTG	LRCE	HFF	L

Figure 5

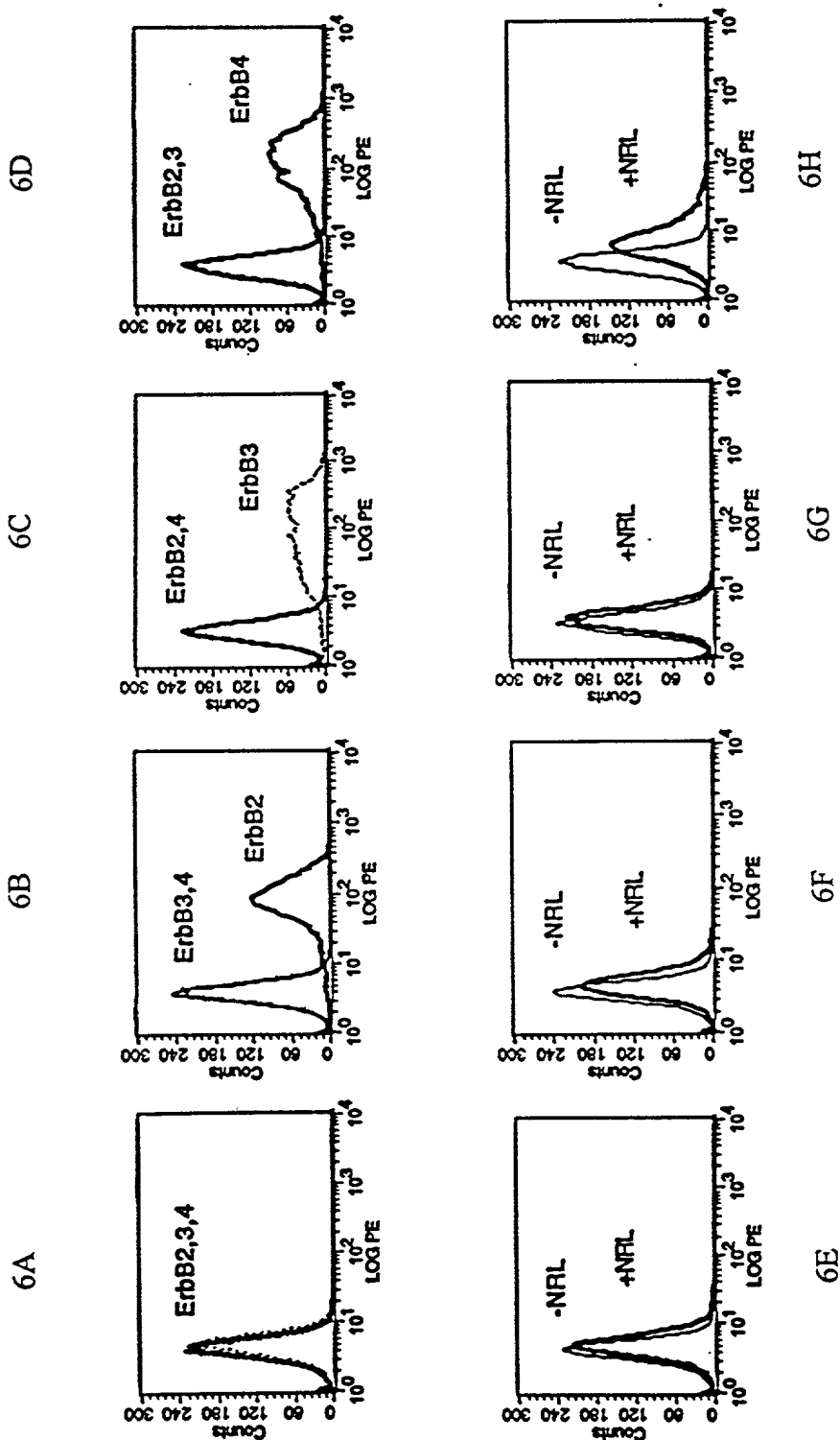


Figure 6A - 6H

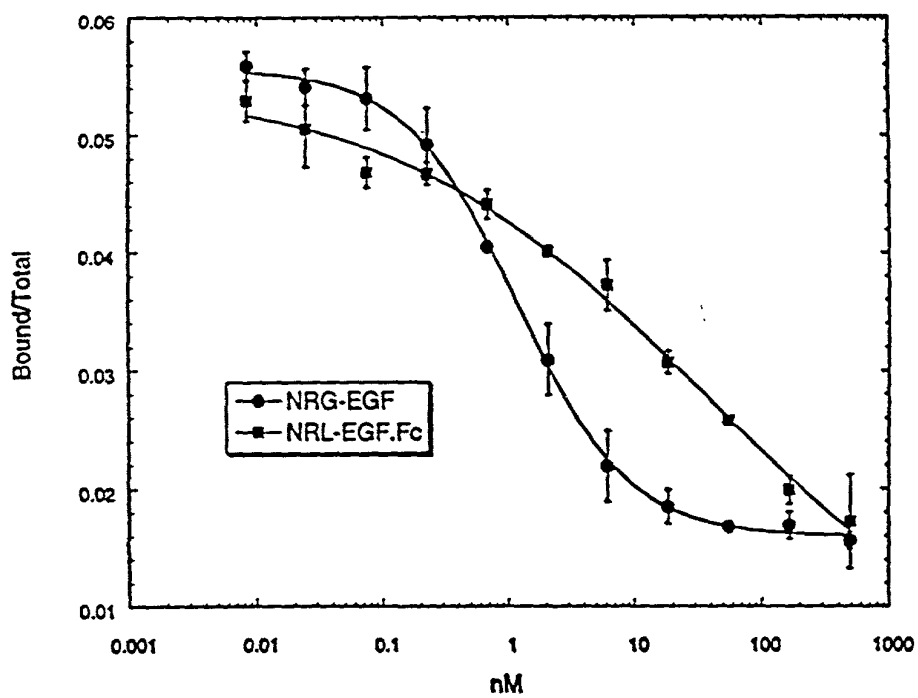


Figure 7